

D9156

INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

This material contains information affecting the National Defense of the United States within the meaning of the Espionage Laws, Title 18, U.S.C. Secs. 793 and 794, the transmission or revelation of which in any manner to an unauthorized person is prohibited by law.

S E C R E T

50X1-HUM

COUNTRY East Germany/USSR REPORT [REDACTED]

SUBJECT Koenigswusterhausen Radio Center;
New High-Frequency Transmitter Stations
() ✓

DATE DISTR. 1 DEC 1960

NO. PAGES 4

REQUIREMENT NO. RD

REFERENCES

DATE OF INFO. [REDACTED] 50X1-HUM

PLACE & DATE ACQ. [REDACTED] 50X1-HUM

SOURCE EVALUATIONS ARE DEFINITIVE. APPRAISAL OF CONTENT IS TENTATIVE.

1. Three 100-kW short wave transmitter stations are to be installed at Koenigswusterhausen Radio Center. The necessary surveying work is completed. The location plan has been made.

The transmitter stations will be supplied by the Moscow firm SNEG,¹ where the components are packed in crates. For the delivery, a total of 120 railroad cars will be required. Twenty-three cars had arrived at the Radio Center as of August 1960.

The three stations will be assembled by ARF (Anlagenbau fuer Rundfunk und Fernsehen) and FFAB (VEB Funk-und Fernmeldeanlagenbau-Berlin) under the supervision of Soviet engineers, who are to arrive at Koenigswusterhausen Radio Center between 15 and 30 September 1960.

The crates with the transmitter components will not be opened until after the arrival of the Soviet supervisory staff.

Two of the transmitter stations will be installed in building 2 and are scheduled to start operation in the first quarter of 1961. The third transmitter station will be housed in the annex to building 2, because the new building is not yet completed. The cells will be erected around the annex.

The masts for the five rhombic antennas (R1- R5) were delivered on 12 August 1960. The antennas will be assembled by FFAB.

The fishbone antenna, which consists of three radiating surfaces (a large one, a medium-sized one and a small one), and the five masts are supposed to be delivered by the USSR in 1960. One of the masts is 40 m high, one 55 m and three 110 m each. Assembly work is to be started in January 1961. Soil investigation for the foundations is in progress.

S E C R E T

ACIC

50X1-HUM

STATE	X	ARMY	#X	NAVY	X	AIR	#X	FBI	AEC	NSA	X
-------	---	------	----	------	---	-----	----	-----	-----	-----	---

(Note: Washington distribution indicated by "X"; Field distribution by "#".)

INFORMATION REPORT INFORMATION REPORT

S E C R E T

50X1-HUM

- 2 -

The Europa-Quadrant-Antenne (Europe quadrant antenna) (omnidirectional antenna) will also be supplied by the USSR.

The cable ducts will be completed by 1 September 1960.

The 30-kV feeder was rejected and diesel aggregates were chosen instead. At present, the following diesel aggregates are in use: 1 aggregate of 732 kVA, 2 aggregates of 500 kVA each and 3 aggregates of 350 kVA each. Two thousand four hundred kVA are taken from the net.

2. Task of the Transmitter Stations.

Propaganda abroad as BIW (Berliner Internationale Welle) (Berlin International Wave).

3. For planned directions of radiation, see page 3.

The cost of the new transmitter stations amounts to 11 million DME.

For location sketch with explanations of Koenigswusterhausen Radio Center, see attachments.

4. Cooling Installation

A concrete tower for cooling-water storage will be constructed in 1961. For the time being, the water for cooling the transmitter tubes is taken out of the reservoir for fire fighting. See attachment for location map.

S E C R E T

50X1-HUM

S E C R E T

- 3 -

50X1-HUM

A. Rhombic Antennas

Antenna Number	Frequency Range	Azimuth	Range	X-Axis	Y-Axis	Height of the Masts
1	9-20 Mc/s	208°	5,000 km	270 m	75 m	26.8 m
2	9-20 Mc/s	186°	5,000 km	270 m	75 m	26.8 m
3	11-21 Mc/s	129°	3,000 km	270 m	73 m	26.0 m
4	6-12 Mc/s	129°	3,000 km	230 m	93 m	23.5 m
5	6-12 Mc/s	235°	12,000 km	230 m	93 m	

B. Fishbone Antennas (three radiating surfaces)

6	91.5	6,000 km
	91.5	10,000 km
	291.5	9,500 km


S E C R E T

50X1-HUM

S E C R E T

- 4 -

50X1-HUM

1.  Comment: Not further identified.

50X1-HUM

Attachments:

- A. Schematic sketch of the fishbone antenna with three radiating surfaces and the Europa-Quadrant-Antenne (one page with German notations).
- B. Location sketch with explanation in German of the Koenigswusterhausen Radio Center (2 sheets)

50X1-HUM

S E C R E T

50X1-HUM

SECRET

50X1-HUM

Anlage 1Erläuterungen zum Lageplan FUNKAMT KÖNIGSWUSTERHAUSEN

- = Sendeturm 3 (Höhe 150 m)
- H 1 = Haus 1
- H 2 = Haus 2
- H 3 = Haus 3
- W = Wohnungen
- A = Anbau (Neubau) an Haus 2
- R = Europa-Quadrat-Antenne (Rundstrahler)
- TA = Tannenbaum-Antenne (3 Strahlwände)
- AB = Antennenbahnhof
- R 1 - R- 5 = 5 Rhomben-Antennen
- BT = Beton-Turm für Kühlwasser
- T = Feuerlöschteich
- = Sendetürme nicht mehr bestehend



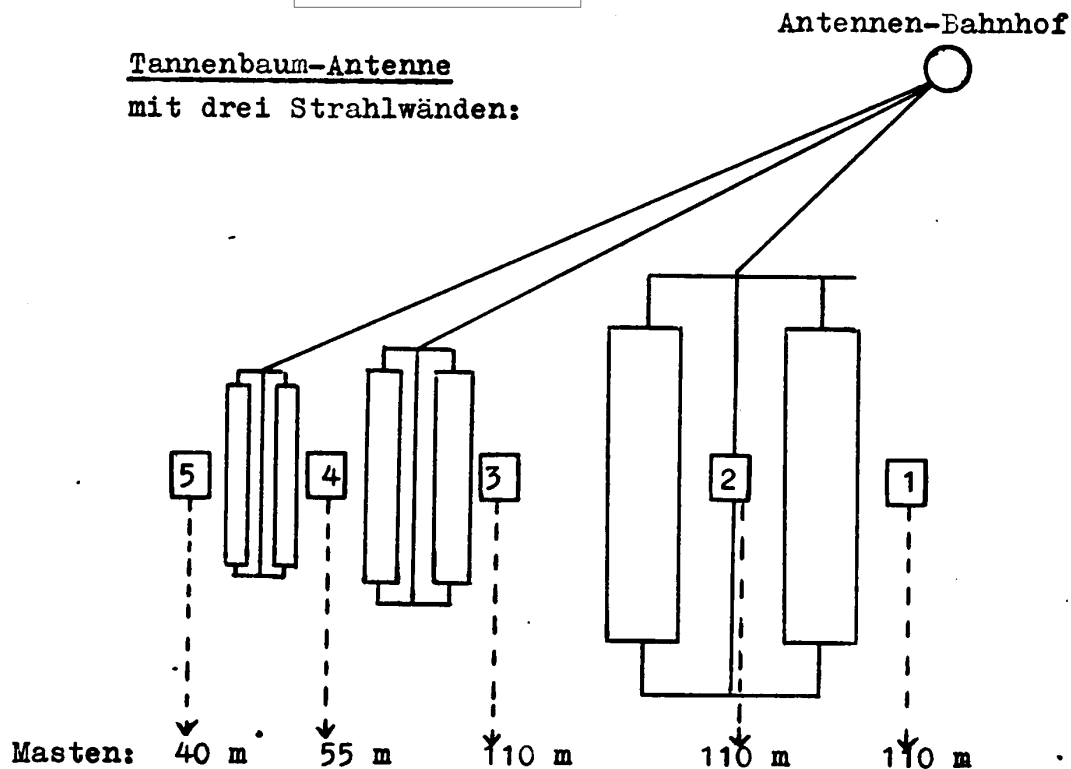
50X1-HUM

SECRET

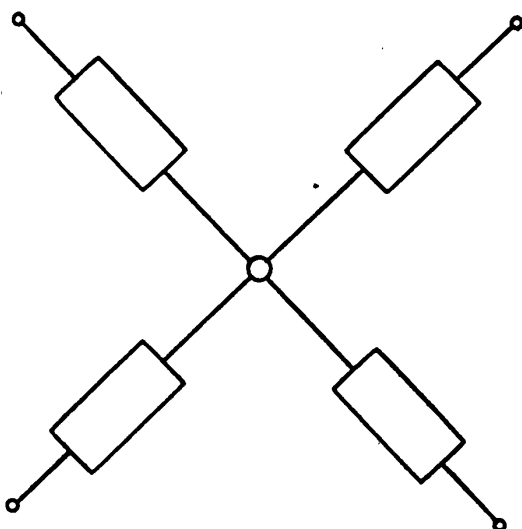
SECRET

50X1-HUM

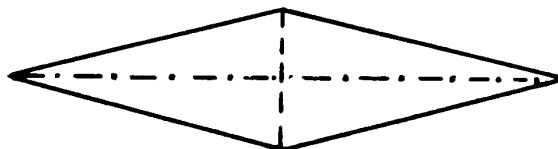
Tannenbaum-Antenne
mit drei Strahlwänden:



Europa-Quadrant-Antenne (Richtstrahler):



Rhomben-Antenne:



-. - . - . - = X-Achse
- - - - - = Y-Achse

50X1-HUM

SECRET

